

Appl. No. 10/006,780  
Amdt. dated September 19, 2003  
Reply to Office Action of August 19, 2003

PATENT

# 9/A  
JM  
9/24/03

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-7. (canceled)

8. (currently amended) An isolated protein, wherein (a) the protein comprises a sequence that has greater than 90% amino acid sequence identity to SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, or SEQ ID NO:10, ~~or SEQ ID NO:12~~ as measured using a sequence comparison algorithm and wherein the protein algorithm, and (b) has microtubule stimulated ATPase activity.

9. (currently amended) An isolated protein of claim 8, wherein the protein specifically binds to polyclonal antibodies generated against a protein comprising SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, or SEQ ID NO:10, ~~or SEQ ID NO:12~~.

10. (currently amended) An isolated protein of claim 8, wherein the protein comprises SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, or SEQ ID NO:10, ~~or SEQ ID NO:12~~.

11. (original) An isolated protein comprising an amino acid sequence of SEQ ID NO:2.

12. (original) An isolated protein comprising an amino acid sequence of SEQ ID NO:4.

13. (original) An isolated protein comprising an amino acid sequence of SEQ ID NO:6.

14. (original) An isolated protein comprising an amino acid sequence of SEQ ID NO:8.

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15. (currently amended) An isolated protein comprising an amino acid sequence of SEQ ID NO:12 10.

16. (canceled)

17. (currently amended) A method for screening a compound for anti-malarial activity, which method comprises

contacting the compound with a protein, ~~protein comprising SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, or SEQ ID NO:12 wherein the protein~~ (a) comprises a sequence that has greater than 90% amino acid sequence identity to SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, or SEQ ID NO:10 as measured using a sequence comparison algorithm, and (b) has microtubule stimulated ATPase activity; and

determining whether the compound binds to and inhibits the protein, any such binding and inhibition suggesting that the compound may have anti-malarial activity.

18. (original) A method of claim 17, wherein the screening occurs in a multi-well plate as part of a high-throughput screen.